Highest power-to-weight ratio in its class





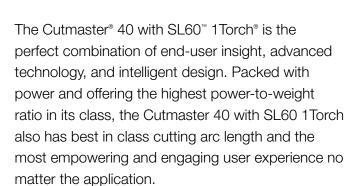










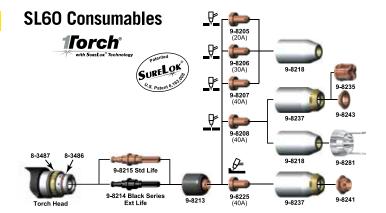


- Built for portability and durability with the integral multi-handle design
- 35% Duty Cycle depending on application. Automatic voltage input detection from 200-240V.
- Industrial SL60 1Torch with ATC® (Advanced Torch Connector)
- Up to 12 mm recommended pierce and cut capacity with up to 16 mm maximum sever
- Cutmaster Black Series electrode included for up to 60% longer life of consumable parts
- Industry leading 3-year warranty on power supply and 1-year warranty on torch

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Specifications	
Amperage Output	15 – 40 A, continuously adjustable
Recommended Generator Size	8.0 kW
Open Circuit Voltage (OCV)	280 V
Input Voltage	200-240 VAC +/-10%, 50/60Hz, 1ph
Rated Duty Cycle	35% @ 40 A 60% @ 30 A 100% @ 20 A
Amperage Draw *	I _{1eff} : 15.5 A @230V * 26A @ 230V
Input Power Cable	2.7 m length, 2.5mm² input cable. 16A plug
Work Lead with Ground Clamp	4 m work cable with 50 mm connection
Gas Requirements	Compressed air
Operating Temperature Range	0° – 50° C
Operating Input Air Pressure Range	6.2 – 8.6 bar
Min Air Flow Requirements (cutting & gouging)	142-235 l/min
Recommended Cut	up to 12 mm
Maximum Sever	up to 16 mm
Pierce Rating	12 mm
SL60 Torch Duty Cycle	100% at 40 A @ 189 I/min air flow
Torches – for use with the Cutmaster 40	SL60 1Torch (supplied) SL60QD 1Torch
Dimensions L x W x H	460 x 200 x 320 mm
Weight	10 kg

^{*} at Maximum Cut Capacity

Cutting Specifications			
Plate Thickness	Recommended Cut Speed		
1 mm	7670 mm/min		
2 mm	6985 mm/min		
4 mm	2667 mm/min		
5 mm	1778 mm/min		
6 mm	762 mm/min		
9 mm	508 mm/min		
13 mm	254 mm/min		

Ordering Information				
Description	Part Number			
ESAB Cutmaster 40, 1 ph with SL60 1Torch 16 ft (5 m) 90° Head	0559140004			
Torches				
SL60 1Torch and Lead 6.1 m 75° Head	7-5204			
SL60 1Torch and Lead 15.2 m 75° Head	7-5205			
SL60QD 1Torch and Lead 6.1 m 75° Head	7-5620			
SL60QD 1Torch and Lead 15.2 m 75° Head	7-5650			
SL60QD 1Torch Handle Assembly 75° Head (no leads)	7-5681			
SL60QD Lead 6.1 m	4-5620			
SL60QD Lead 15.2 m	4-5650			

Cutmaster 40 power supply, SL60 90° torch with lead, work lead with ground clamp, spare parts kit, 1/4" NPT air fitting with quick connect, and operating manual.

Cutmaster 40 is compatible with all 1Torch ATC torch connections.

Wear & Spare Parts 1Torch			
Description	Part Number		
Cutmaster Black Series Extended Life Electrode	9-8214		
Electrode	9-8215		
Start Cartridge	9-8213		
Stand off cutting guide	9-8251		
Shield Cup	9-8218		
Shield Cup Max Life	9-8237		
Shield Cap Gouging	9-8241		
Shield Cap (Drag only)	9-8244		
Deflector	9-8243		
Tip - Drag (20 A)	9-8205		
Tip - Drag (30 A)	9-8206		
Tip – Drag (40 A)	9-8207		
Tip – Standoff (40 A)	9-8208		
Tip – "A" Gouging, (40 A Max), Profile: Shallow/Narrow	9-8225		
Tip - "B" Gouging, (50 - 100 A), Profile: Deep/Narrow	9-8226		
Tip - "C" Gouging, (60 - 100 A), Profile: Moderate/Moderate	9-8227		
Tip - "D" Gouging, (60 - 120 A), Profile: Shallow/Wide	9-8228		

Options & Accessories			
Description	Part Number		
Cutting Guide Kit (Deluxe)	7-8910		
Circle Cutting Guide Kit	7-3291		
Lead Extension, 4.6 m	7-7544		
Lead Extension, 7.6 m	7-7545		
Lead Extension, 15.2 m	7-7552		
Leather Lead Covers 6.1 m	9-1260		
Multi-Purpose Cart	7-8888		
Radius/Roller Cutting Guide Kit	7-7501		
Single Stage Air Filter Kit	7-7507		
Straight Line Cutting Guide	7-8911		
Two Stage Air Filter Kit	9-9387		

1TORCH CONSUMABLES PARTS APPLICATION GUIDE

For SL60° / SL100° Manual Cutting and Gouging Operations.



DRAG TIP CUTTING The preferred method of cutting light gauge metal up to 6 mm thickness Produces the best cut quality narrowest kerf width, fastest cutting speeds, and with little to no distortion. Traditional drag cutting was limited to 40 Amps or less; it is possible to cut up to 60 Amps. For best results, use the Shield Cup with the torch tip in direct contact with the work (up to 60 Amps).



DRAG SHIELD CUTTING This is an operator-friendly method of cutting while maintaining a constant standoff distance. For metal thickness greater than 6 mm, simply drag the shield cap in contact with the work piece. Use the shield cup body with the appropriate drag shield cap matching the current level being used. This method is not recommended for cutting light-gauge sheet metal.



STANDOFF CUTTING The preferred method of cutting metal thicker than 6 mm and at current levels above 60 Amps. Provides maximum visibility and accessibility. Shield cup for 'standoff' cutting (with the torch tip 3 mm to 6 mm from the work piece). Use the shield cup body together with the deflector for extended parts life and improved resistance to reflect heat. This combination provides cutting results similar to the single piece shield cup, as well as easy changeover to gouging or drag shield cutting.



GOUGING A simple method of metal removal by angling the torch to a lead angle of 35°-45°, and using a gouging tip. While maintaining a constant standoff distance, this allows for only a partial penetration into the work, thus removing metal from the surface. The amount of current, travel speed, standoff distance, lead angle, and tip size will determine the amount of material removed and the profile of the gouge. You can use the shield cup body with either the gouging shield cap or the shield deflector. Also, you can use the single piece shield cup.

Gouging Profiles					
	Output Range	Depth	Width		
Tip A	40A (MAX)	Shallow	Narrow		
Tip B	50-100A	Deep	Narrow		
Tip C	60-120A	Moderate	Moderate		
Tip D	60-120A	Shallow	Wide		



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